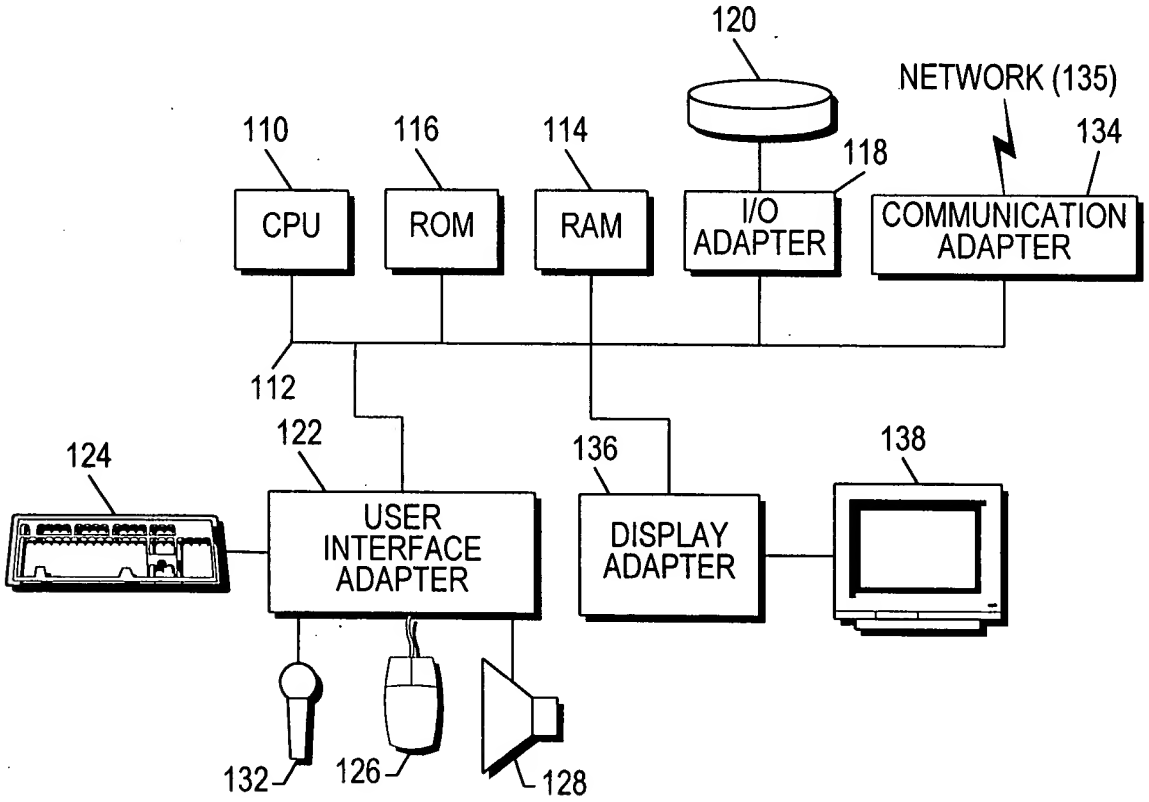
120
NETWORK (135)
110
116
114
118
134
CPU
ROM
RAM
I/O ADAPTER
COMMUNICATION ADAPTER
112
122
124
136
138
USER INTERFACE ADAPTER
DISPLAY ADAPTER
132
126
128

FIGURE 1

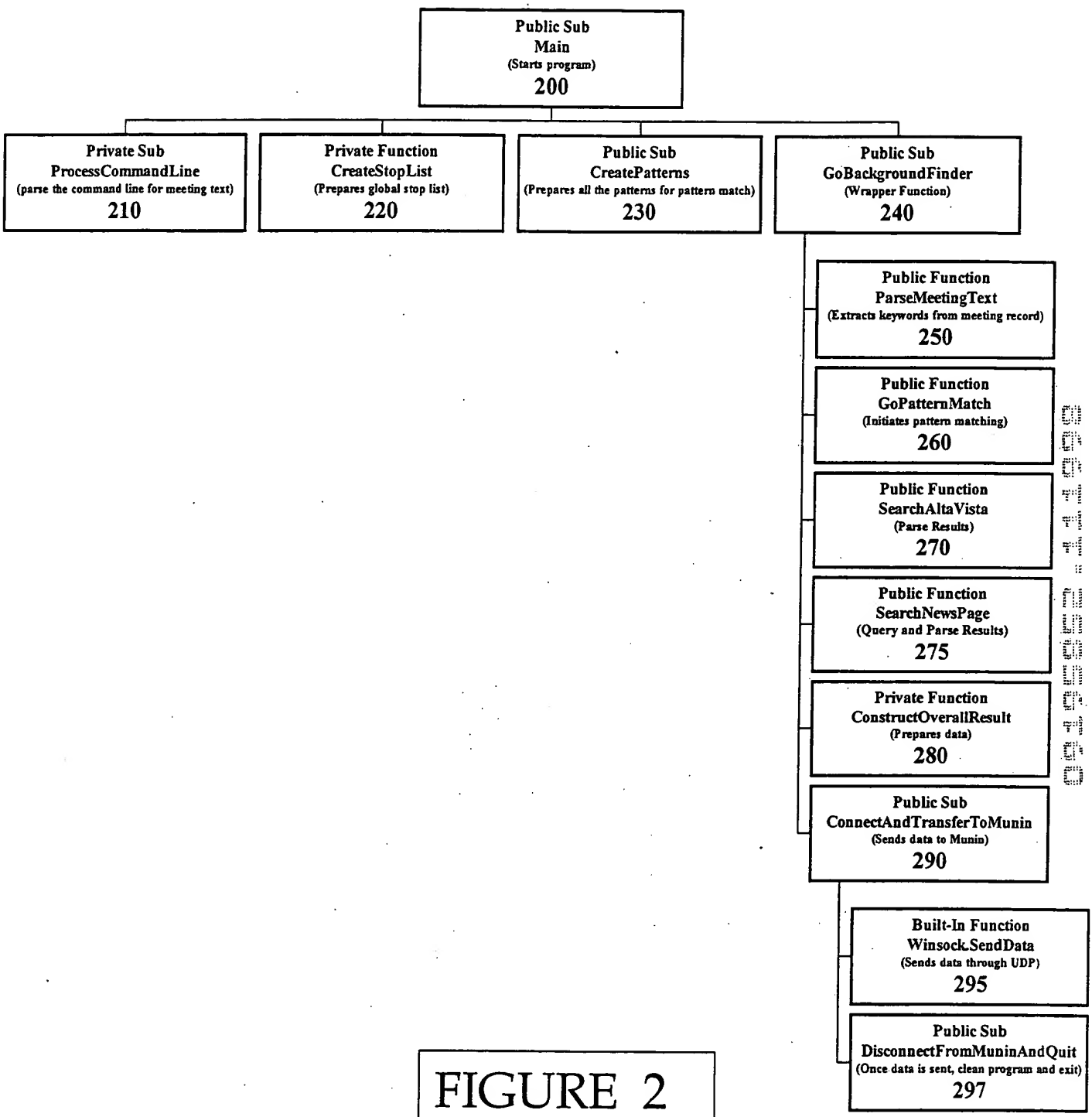
Public Sub
Main
(Starts program)
200
Private Sub
ProcessCommandLine
(parse the command line for meeting text)
210
Private Function
CreateStopList
(Prepares global stop list)
220
Public Sub
CreatePatterns
(Prepares all the patterns for pattern match)
230
Public Sub
GoBackgroundFinder
(Wrapper Function)
240
Public Function
ParseMeetingText
(Extracts keywords from meeting record)
250
Public Function
GoPatternMatch
(Initiates pattern matching)
260
Public Function
SearchAltaVista
(Parse Results)
270
Public Function
SearchNewsPage
(Query and Parse Results)
275
Private Function
ConstructOverallResult
(Prepares data)
280
Public Sub
ConnectAndTransferToMunin
(Sends data to Munin)
290
Built-In Function
Winsock.SendData
(Sends data through UDP)
295
Public Sub
DisconnectFromMuninAndQuit
(Once data is sent, clean program and exit)
297

FIGURE 2

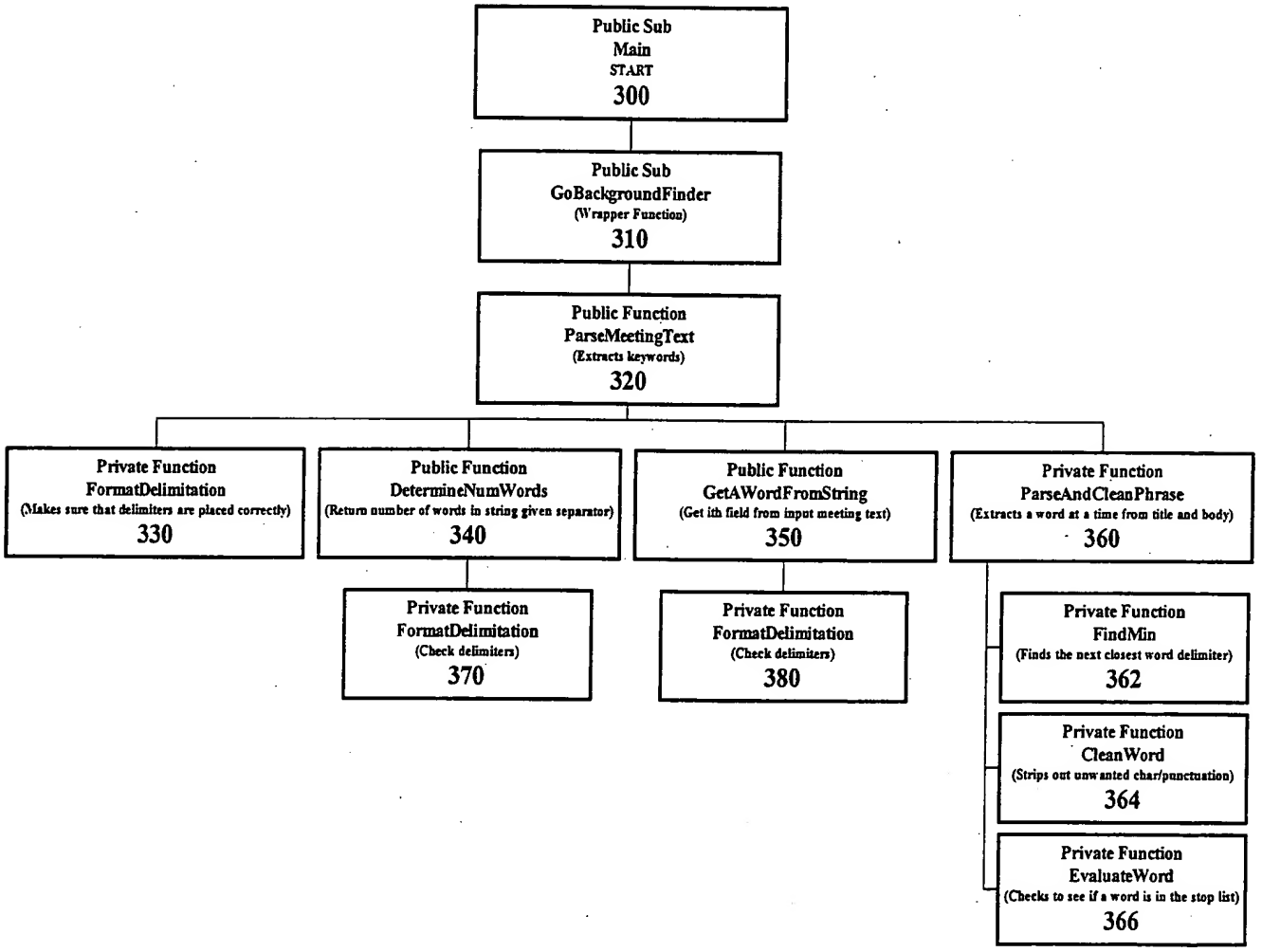
Public Sub
Main
START
300
Public Sub
GoBackgroundFinder
(Wrapper Function)
310
Public Function
ParseMeetingText
(Extracts keywords)
320
Private Function
FormatDelimitation
(Makes sure that delimiters are placed correctly)
330
Public Function
DetermineNumWords
(Return number of words in string given separator)
340
Public Function
GetAWordFromString
(Get ith field from input meeting text)
350
Private Function
ParseAndCleanPhrase
(Extracts a word at a time from title and body)
360
Private Function
FormatDelimitation
(Check delimiters)
370
Private Function
FormatDelimitation
(Check delimiters)
380
Private Function
FindMin
(Finds the next closest word delimiter)
362
Private Function
CleanWord
(Strips out unwanted char/punctuation)
364
Private Function
EvaluateWord
(Checks to see if a word is in the stop list)
366

FIGURE 3

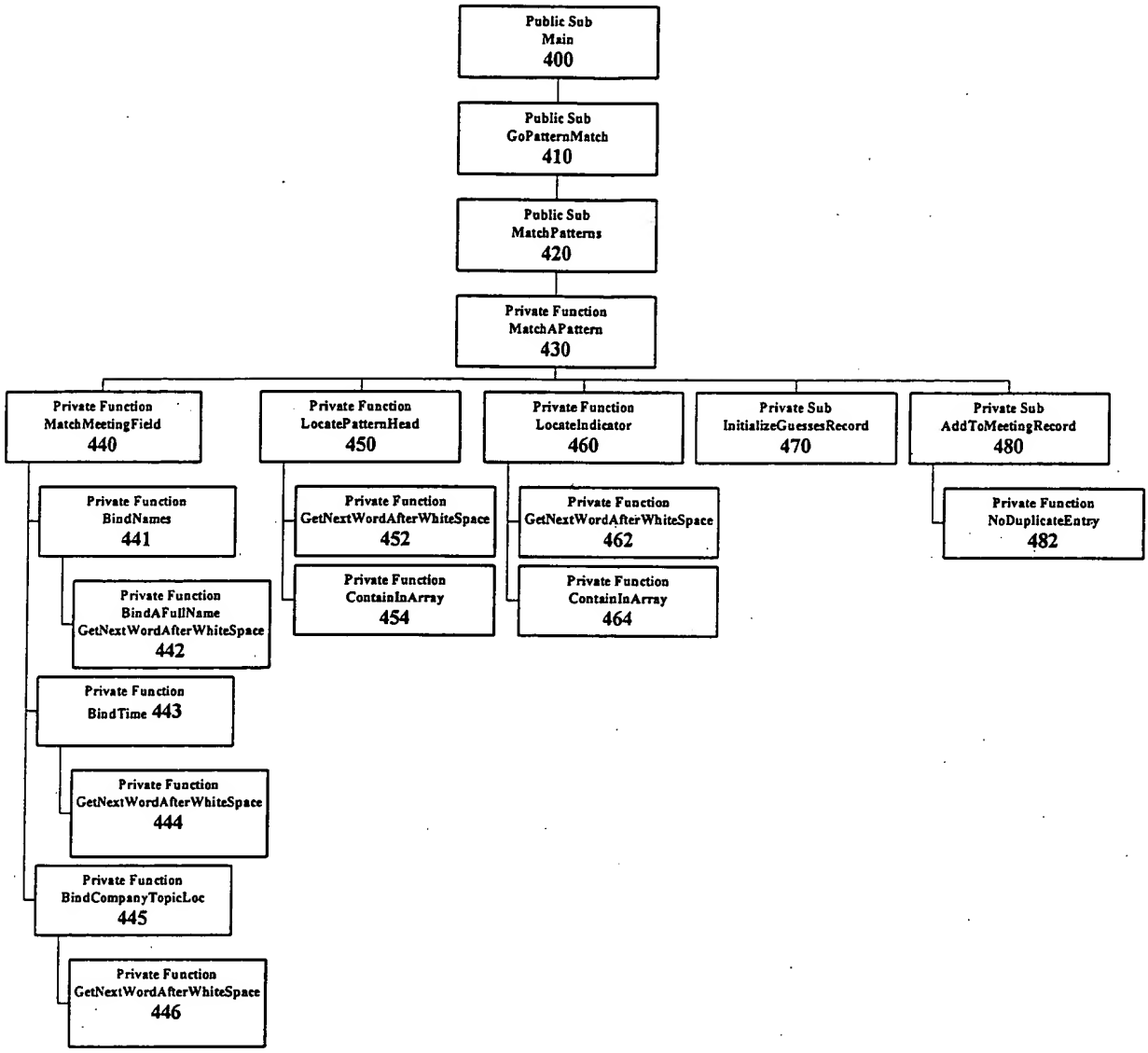
Public Sub
Main
400
Public Sub
GoPatternMatch
410
Public Sub
MatchPatterns
420
Private Function
MatchAPattern
430
Private Function
MatchMeetingField
440
Private Function
LocatePatternHead
450
Private Function
LocateIndicator
460
Private Sub
InitializeGuessesRecord
470
Private Sub
AddToMeetingRecord
480
Private Function
BindNames
441
Private Function
BindAFullName
GetNextWordAfterWhiteSpace
442
Private Function
BindTime 443
Private Function
GetNextWordAfterWhiteSpace
444
Private Function
BindCompanyTopicLoc
445
Private Function
GetNextWordAfterWhiteSpace
446
Private Function
GetNextWordAfterWhiteSpace
452
Private Function
ContainInArray
454
Private Function
GetNextWordAfterWhiteSpace
462
Private Function
ContainInArray
464
Private Function
NoDuplicateEntry
482

FIGURE 4

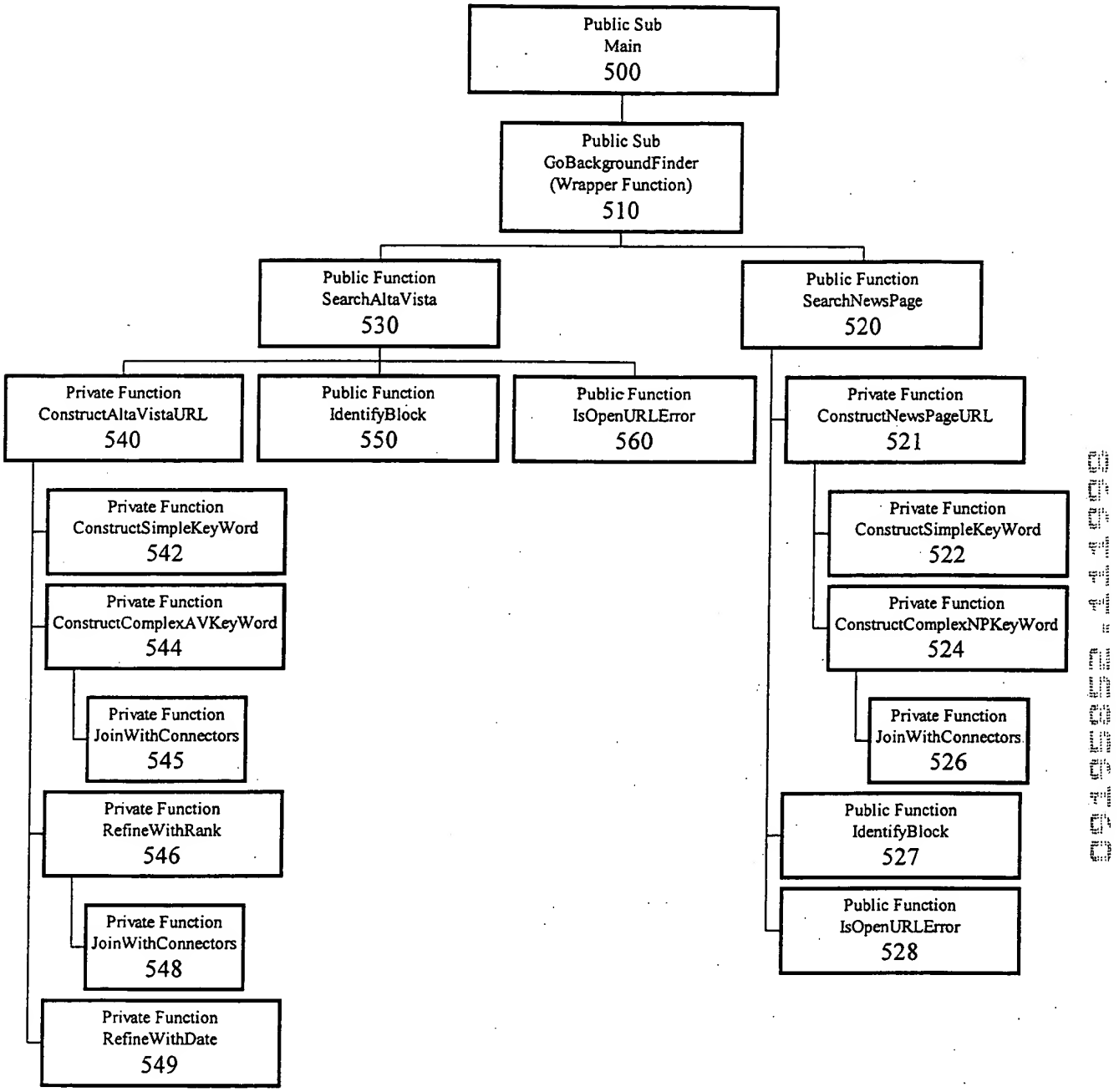
Public Sub
Main
500
Public Sub
GoBackgroundFinder
(Wrapper Function)
510
Public Function
SearchAltaVista
530
Public Function
SearchNewsPage
520
Private Function
ConstructAltaVistaURL
540
Public Function
IdentifyBlock
550
Public Function
IsOpenURLError
560
Private Function
ConstructNewsPageURL
521
Private Function
ConstructSimpleKeyWord
542
Private Function
ConstructComplexAVKeyWord
544
Private Function
JoinWithConnectors
545
Private Function
RefineWithRank
546
Private Function
JoinWithConnectors
548
Private Function
RefineWithDate
549
Private Function
ConstructSimpleKeyWord
522
Private Function
ConstructComplexNPKeyWord
524
Private Function
JoinWithConnectors
526
Public Function
IdentifyBlock
527
Public Function
IsOpenURLError
528

FIGURE 5

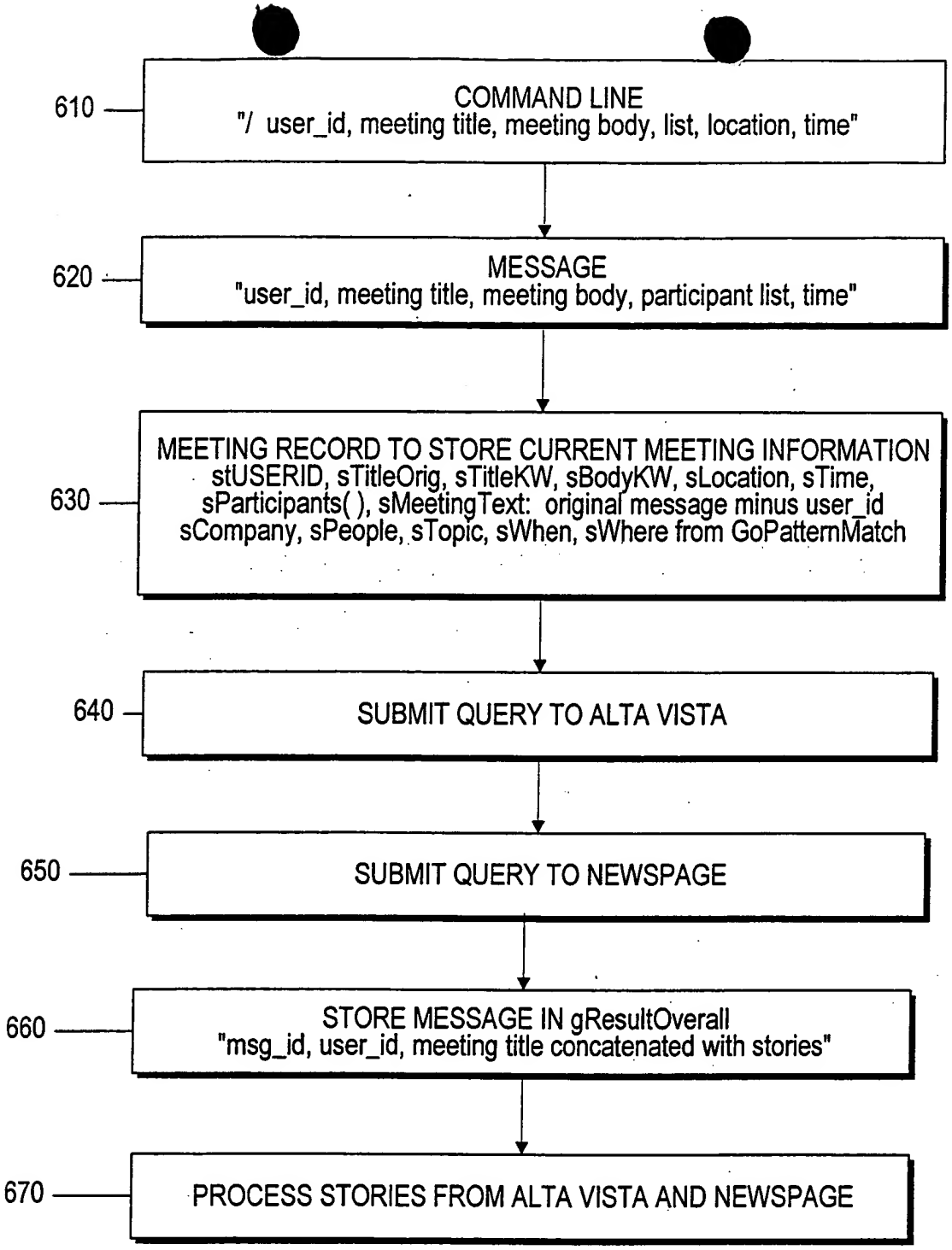
610
COMMAND LINE
"/ user_id, meeting title, meeting body, list, location, time"
620
MESSAGE
"user_id, meeting title, meeting body, participant list, time"
630
MEETING RECORD TO STORE CURRENT MEETING INFORMATION
stUSERID, sTitleOrig, sTitleKW, sBodyKW, sLocation, sTime,
sParticipants( ), sMeetingText: original message minus user_id
sCompany, sPeople, sTopic, sWhen, sWhere from GoPatternMatch
640
SUBMIT QUERY TO ALTA VISTA
650
SUBMIT QUERY TO NEWSPAGE
660
STORE MESSAGE IN gResultOverall
"msg_id, user_id, meeting title concatenated with stories"
670
PROCESS STORIES FROM ALTA VISTA AND NEWSPAGE

FIGURE 6

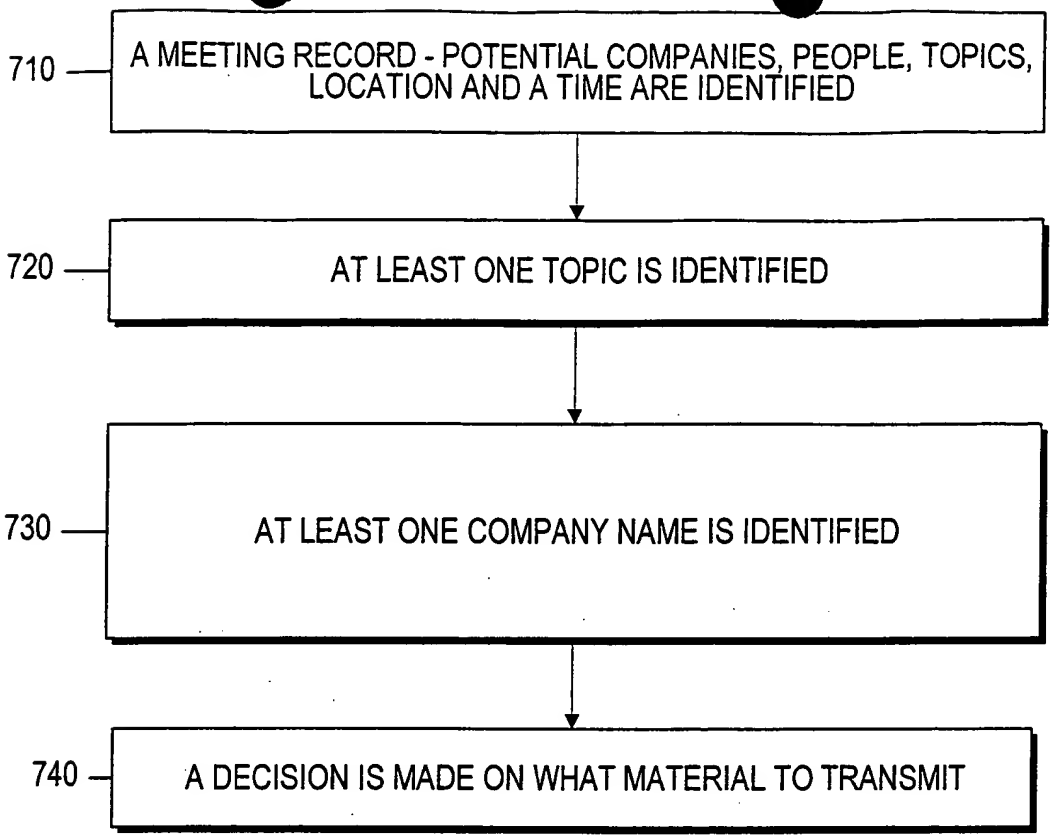
710
A MEETING RECORD - POTENTIAL COMPANIES, PEOPLE, TOPICS, LOCATION AND A TIME ARE IDENTIFIED
720
AT LEAST ONE TOPIC IS IDENTIFIED
730
AT LEAST ONE COMPANY NAME IS IDENTIFIED
740
A DECISION IS MADE ON WHAT MATERIAL TO TRANSMIT

FIGURE 7

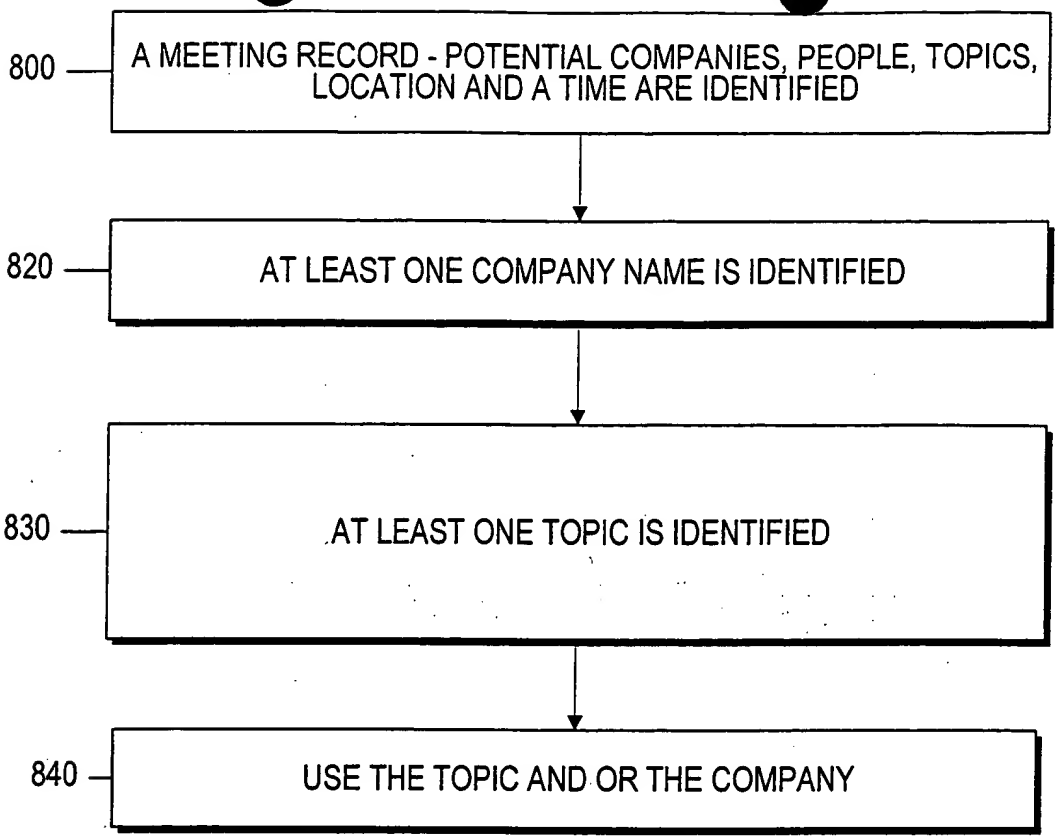
800
A MEETING RECORD - POTENTIAL COMPANIES, PEOPLE, TOPICS, LOCATION AND A TIME ARE IDENTIFIED
820
AT LEAST ONE COMPANY NAME IS IDENTIFIED
830
AT LEAST ONE TOPIC IS IDENTIFIED
840
USE THE TOPIC AND OR THE COMPANY

FIGURE 8

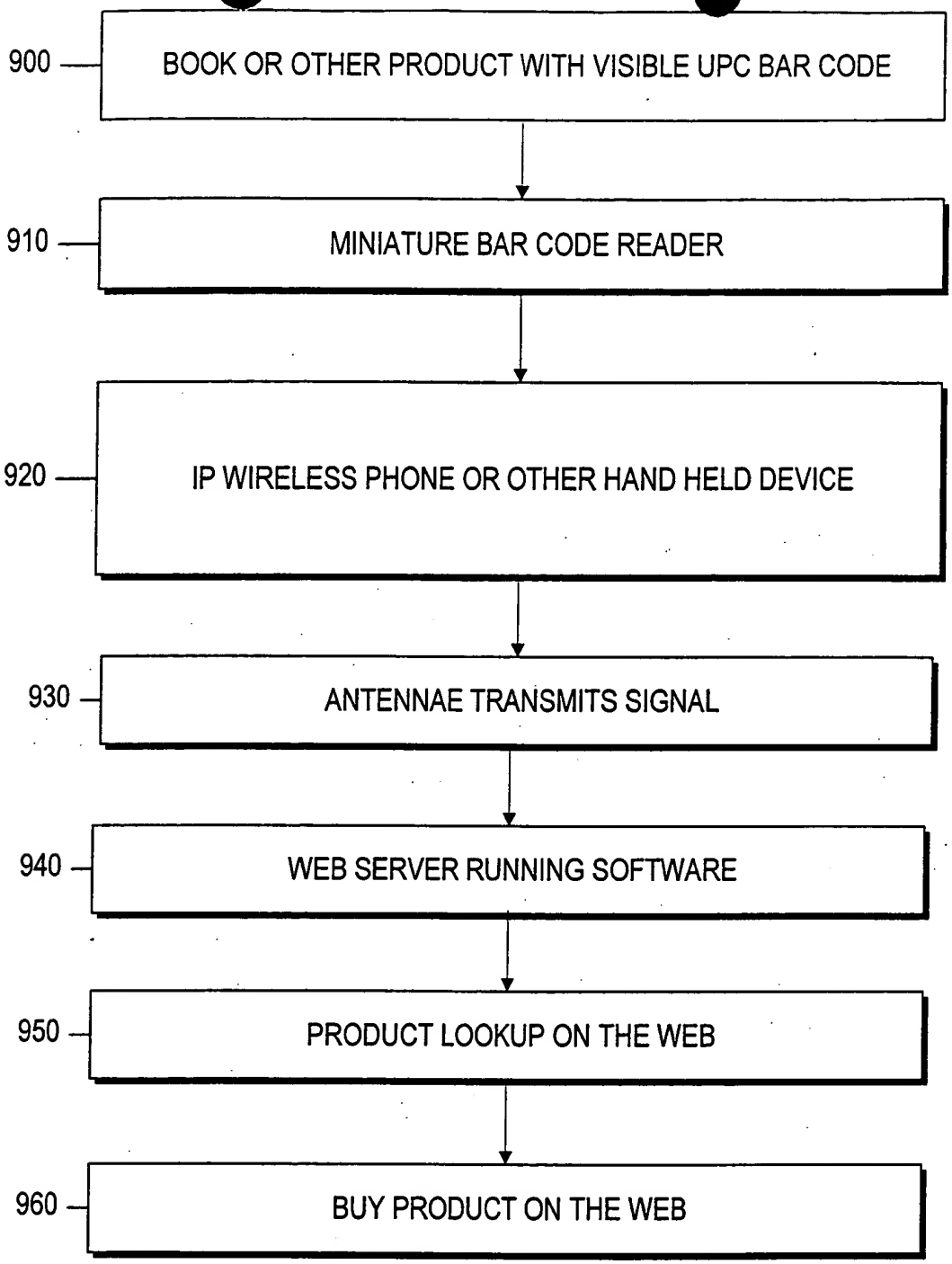
900
BOOK OR OTHER PRODUCT WITH VISIBLE UPC BAR CODE
910
MINIATURE BAR CODE READER
920
IP WIRELESS PHONE OR OTHER HAND HELD DEVICE
930
ANTENNAE TRANSMITS SIGNAL
940
WEB SERVER RUNNING SOFTWARE
950
PRODUCT LOOKUP ON THE WEB
960
BUY PRODUCT ON THE WEB

FIGURE 9

FIGURE 10A

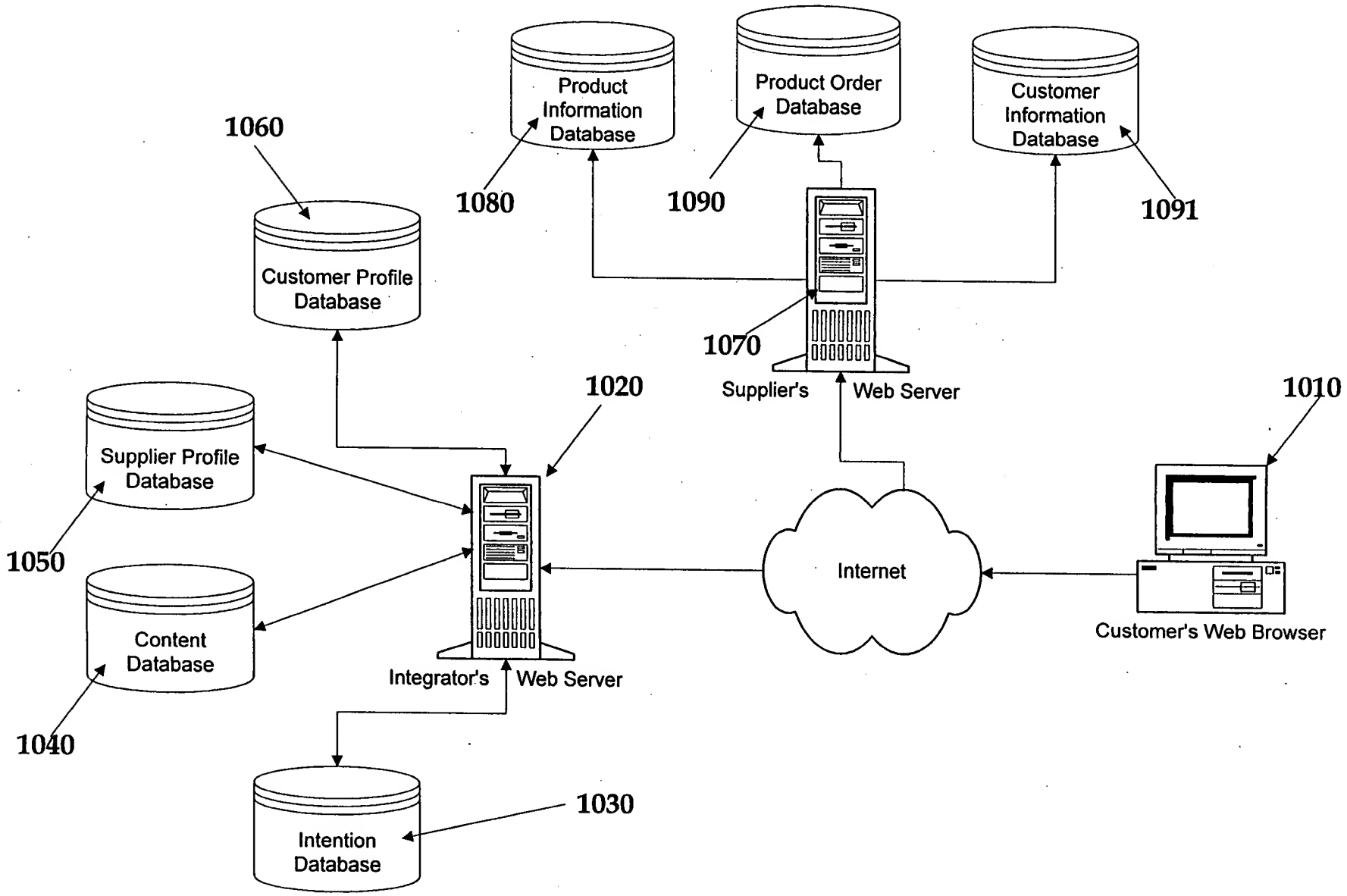
Product Information Database
Product Order Database
Customer Information Database
1060
1080
1090
1091
Customer Profile Database
1070
Supplier's Web Server
1020
1010
Supplier Profile Database
1050
Internet
Content Database
Integrator's Web Server
Customer's Web Browser
1040
1030
Intention Database

Figure 10B

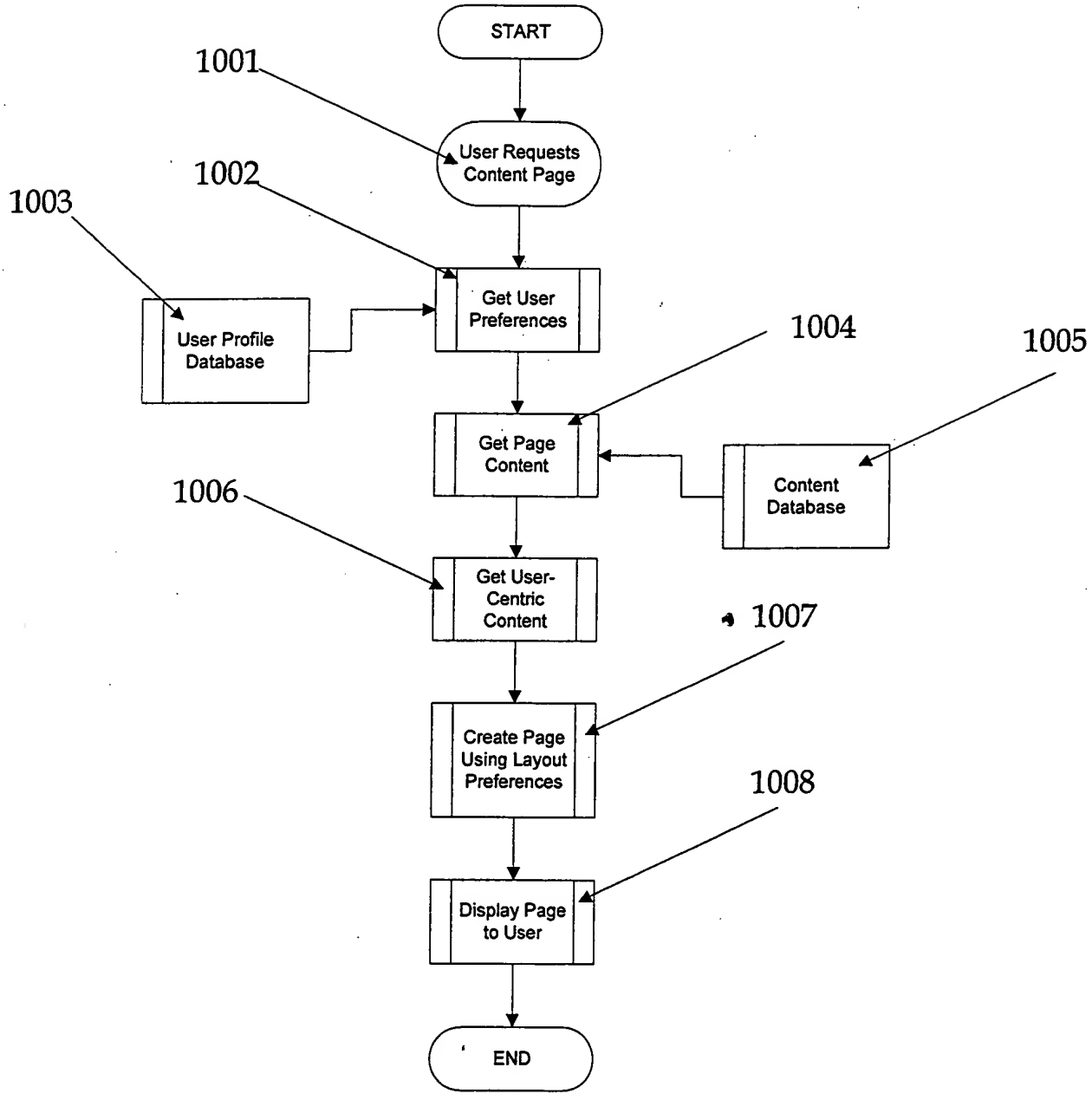
START
1001
User Requests Content Page
1002
1003
User Profile Database
Get User Preferences
1004
1005
Get Page Content
Content Database
1006
Get User-Centric Content
1007
Create Page Using Layout Preferences
1008
Display Page to User
END

Figure 11: Retrieve User-Centric Content

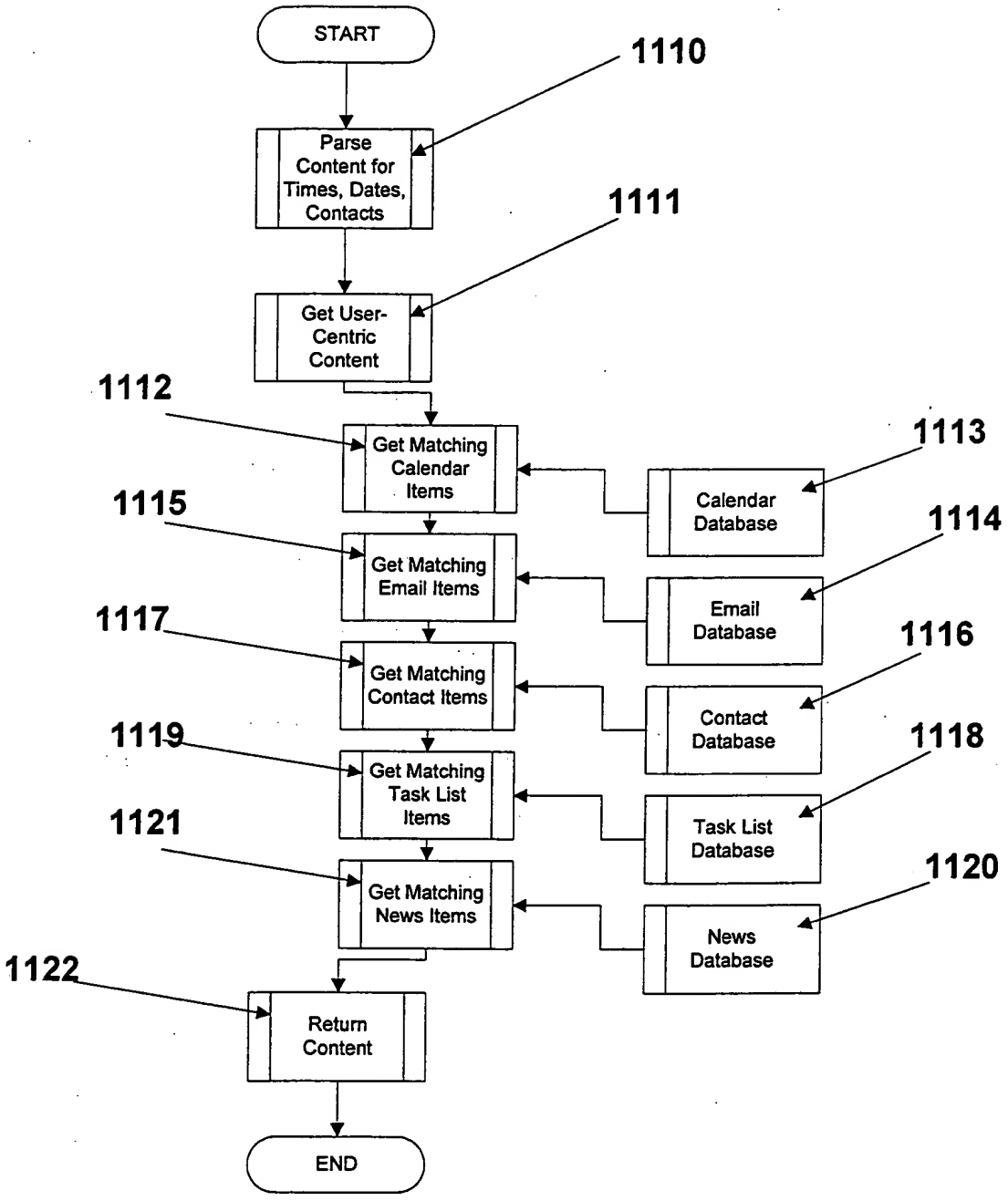

Figure 12: User Profile Data Model

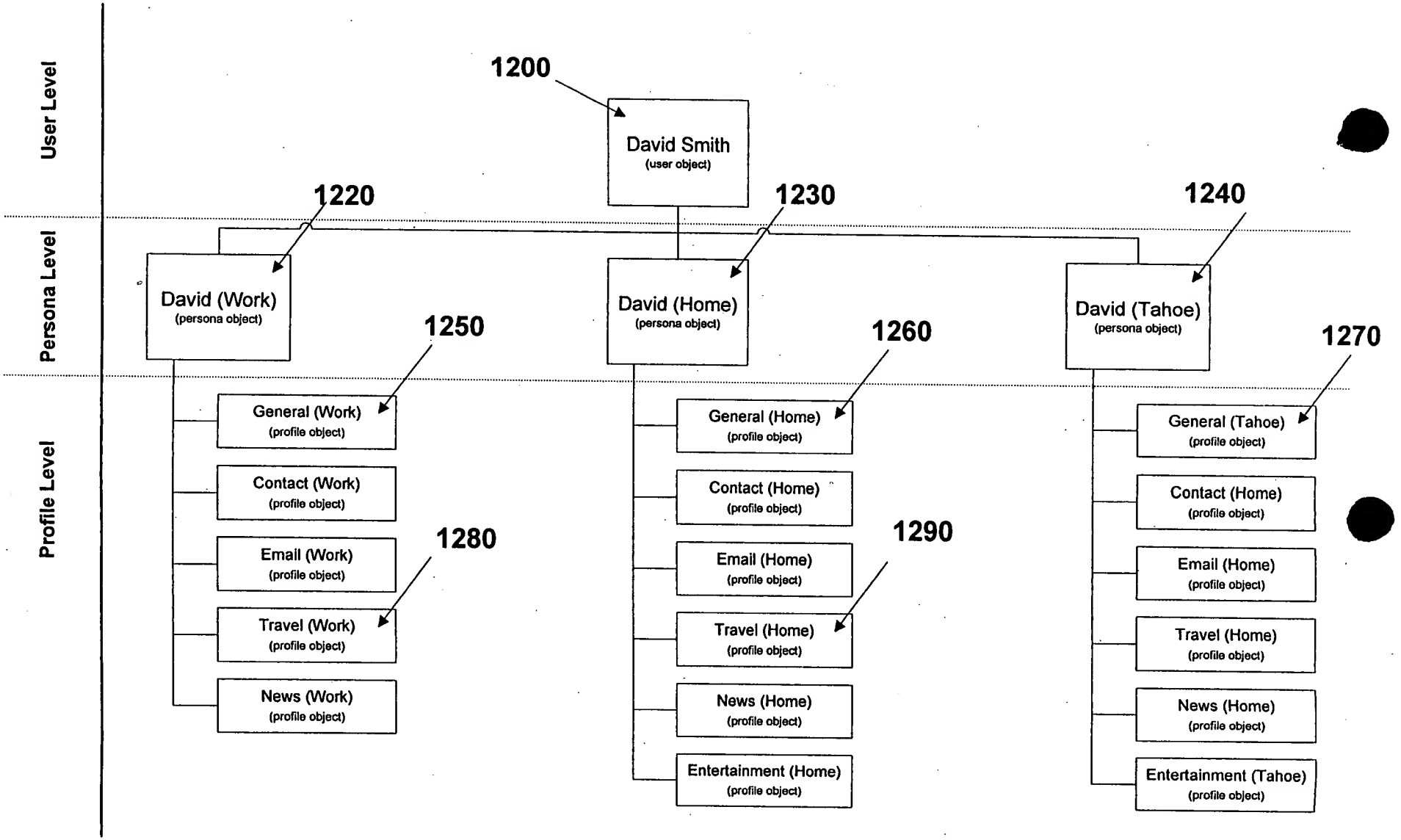

Figure 13: Persona Data Model

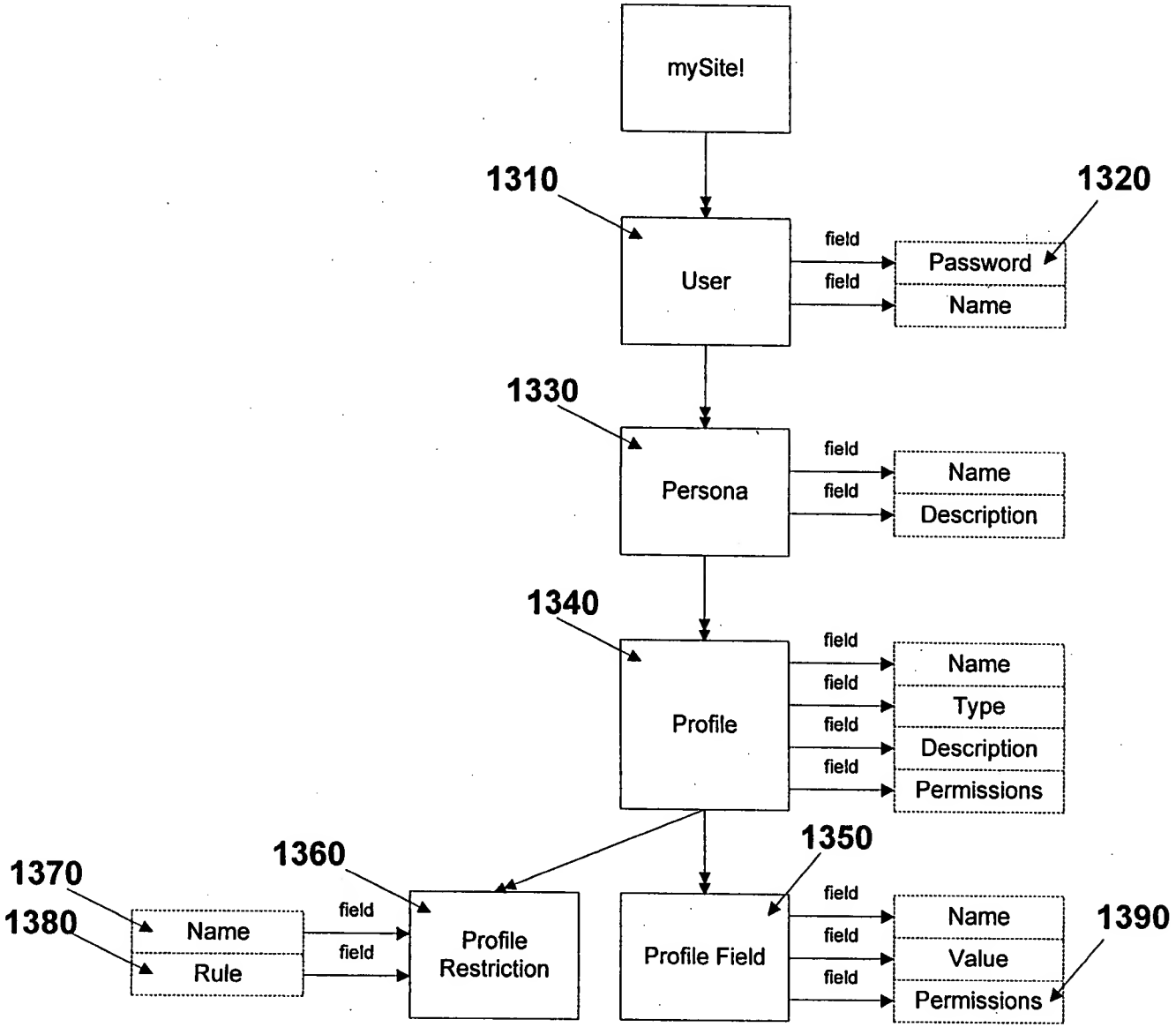

Figure 14: Intention Data Model

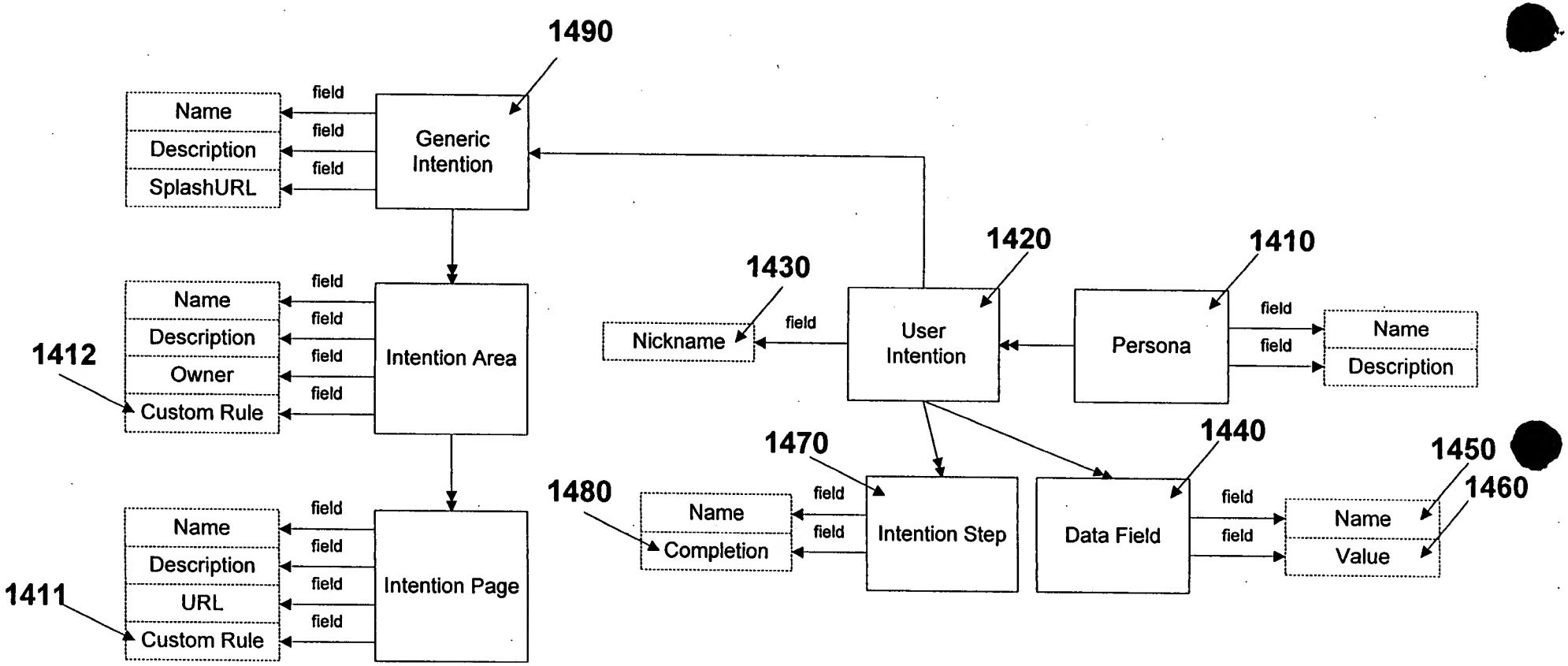

Figure 15

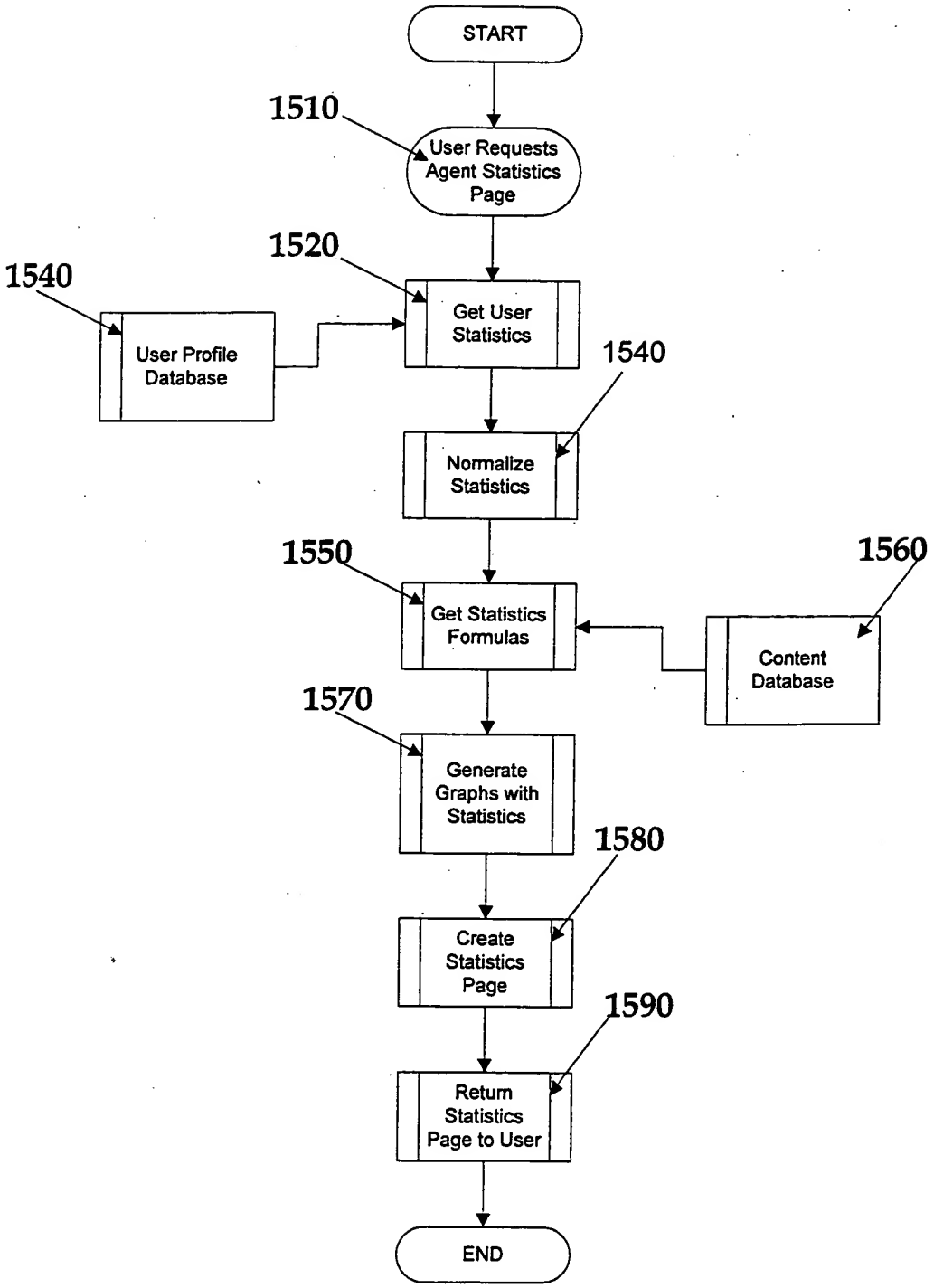
START
1510
User Requests Agent Statistics Page
1520
1540
Get User Statistics
User Profile Database
1540
Normalize Statistics
1550
1560
Get Statistics Formulas
Content Database
1570
Generate Graphs with Statistics
1580
Create Statistics Page
1590
Return Statistics Page to User
END

Figure 16

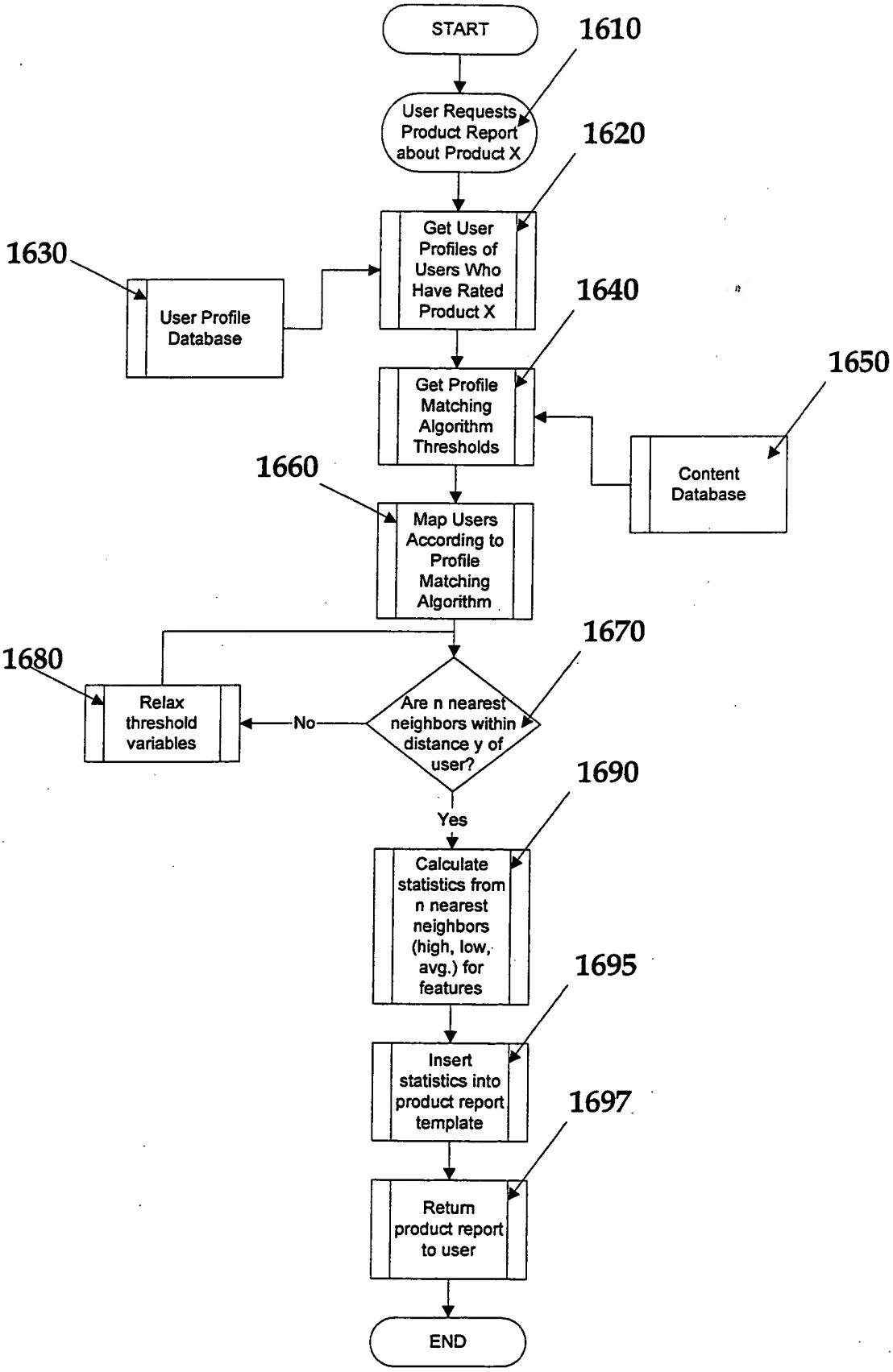
START
1610
User Requests Product Report about Product X
1620
Get User Profiles of Users Who Have Rated Product X
1630
User Profile Database
1640
Get Profile Matching Algorithm Thresholds
1650
Content Database
1660
Map Users According to Profile Matching Algorithm
1670
Are n nearest neighbors within distance y of user?
No
1680
Relax threshold variables
Yes
1690
Calculate statistics from n nearest neighbors (high, low, avg.) for features
1695
Insert statistics into product report template
1697
Return product report to user
END

Figure 17

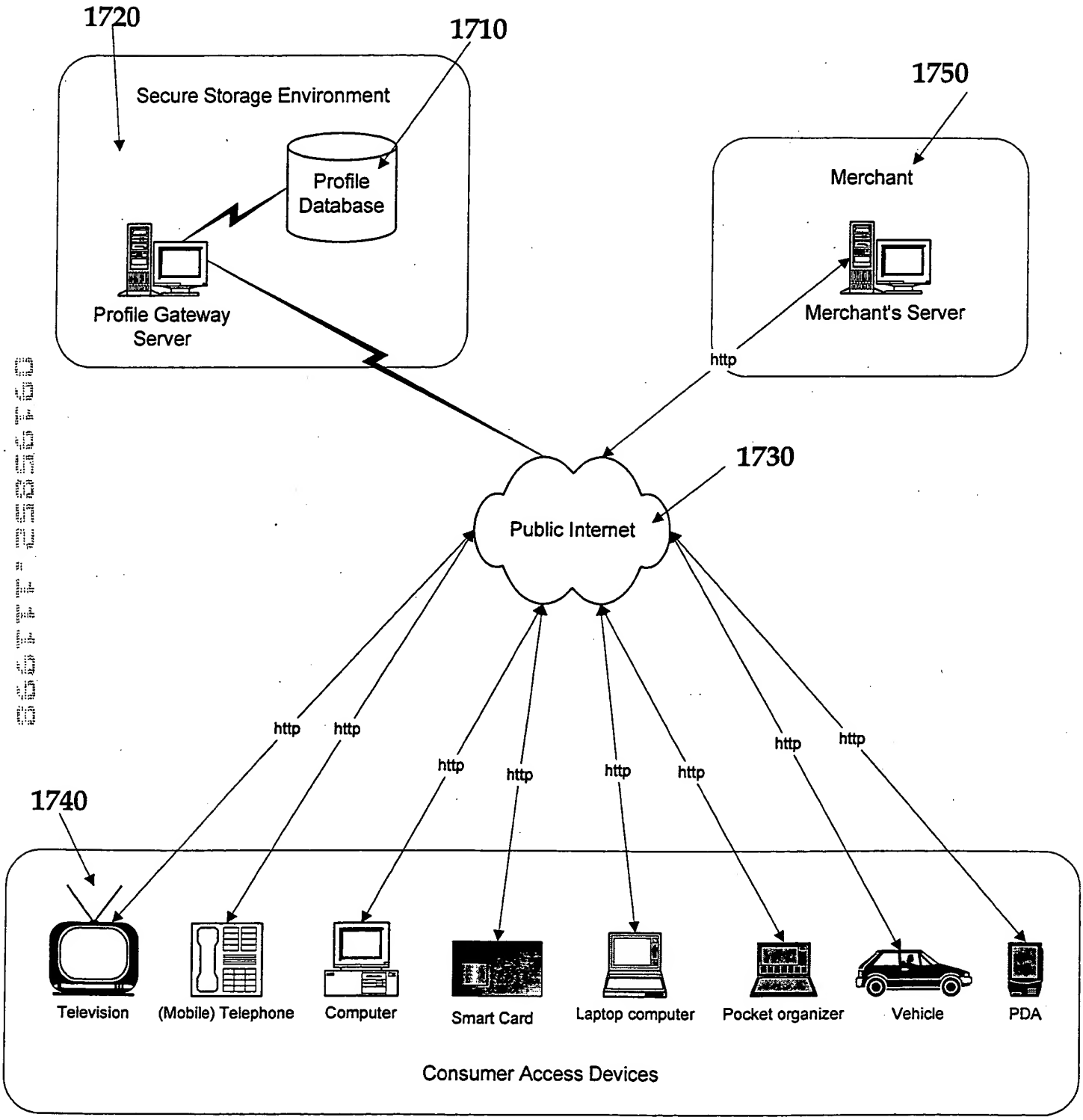
1720
1710
1750
Secure Storage Environment
Profile Database
Profile Gateway Server
Merchant
Merchant's Server
http
1730
Public Internet
http
http
http
http
http
http
http
http
1740
Television
(Mobile) Telephone
Computer
Smart Card
Laptop computer
Pocket organizer
Vehicle
PDA
Consumer Access Devices

Figure 18

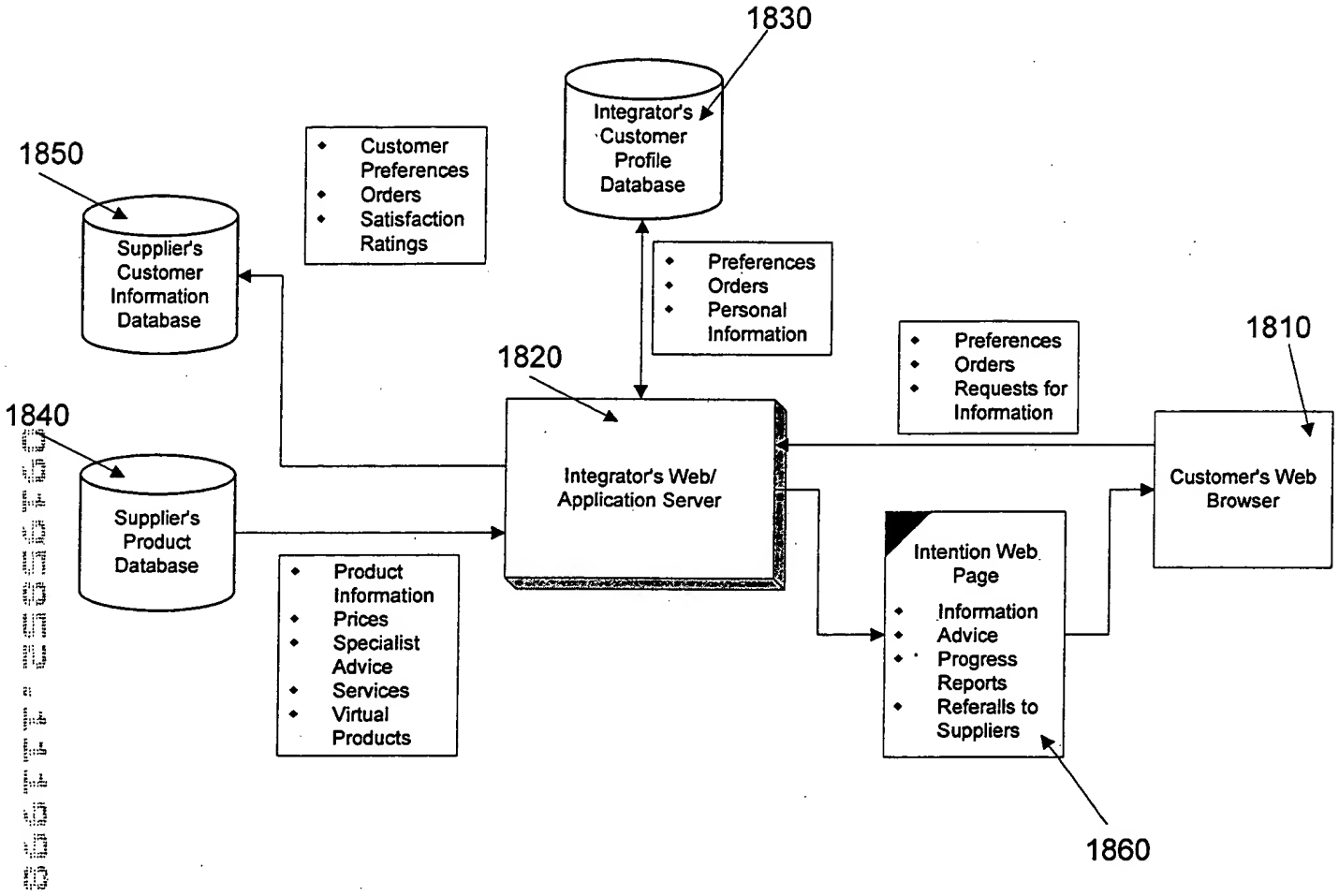
1830
Integrator's Customer Profile Database
1850
Supplier's Customer Information Database
Customer Preferences
Orders
Satisfaction Ratings
Preferences
Orders
Personal Information
1820
1840
Supplier's Product Database
Integrator's Web/ Application Server
Preferences
Orders
Requests for Information
1810
Customer's Web Browser
Product Information
Prices
Specialist Advice
Services
Virtual Products
Intention Web Page
Information
Advice
Progress Reports
Referalls to Suppliers
1860

FIGURE 19

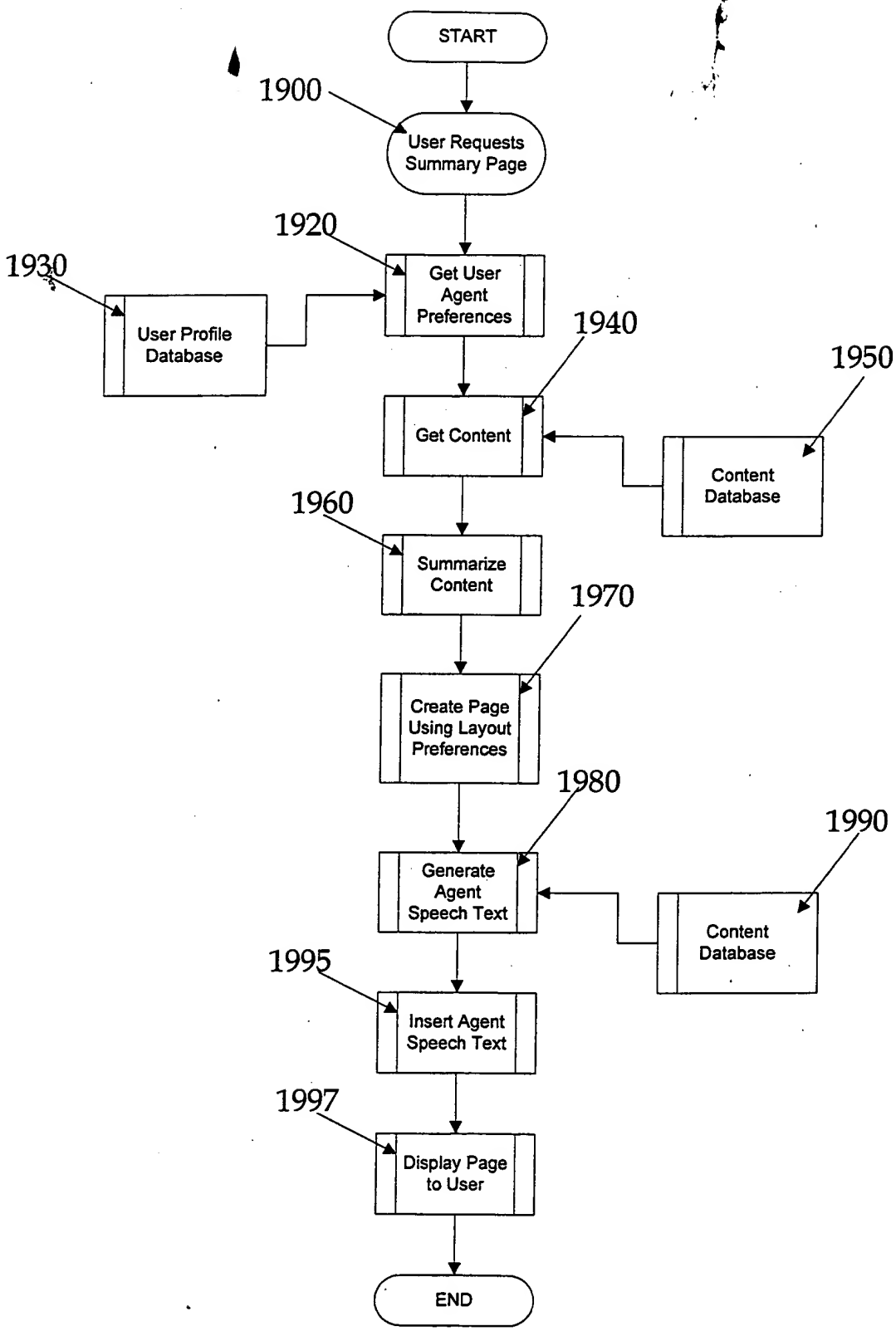
START
1900
User Requests Summary Page
1920
1930
Get User Agent Preferences
User Profile Database
1940
1950
Get Content
Content Database
1960
Summarize Content
1970
Create Page Using Layout Preferences
1980
1990
Generate Agent Speech Text
Content Database
1995
Insert Agent Speech Text
1997
Display Page to User
END

FIGURE 20

09395952 - 112909

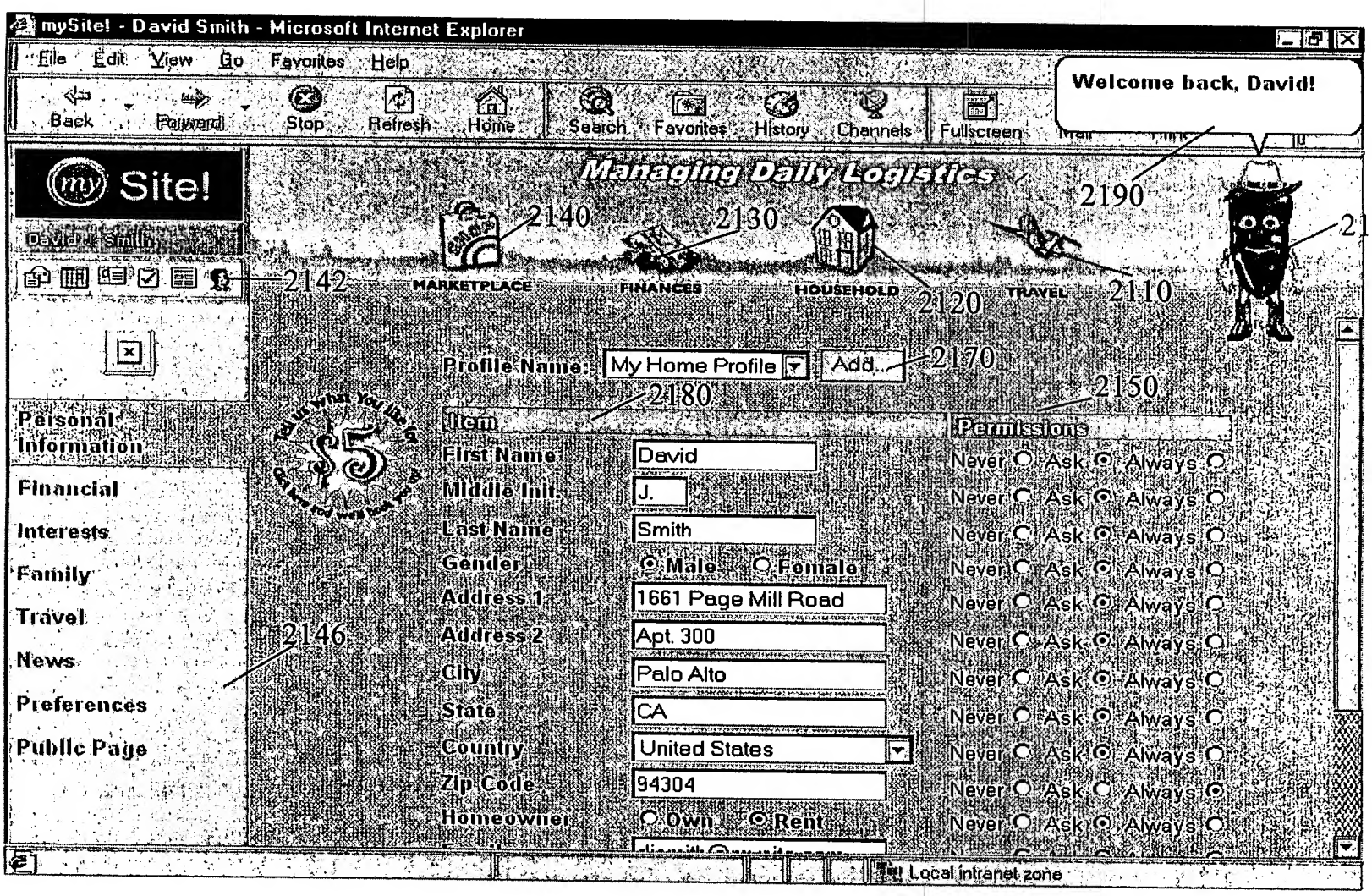

FIGURE 21

09195052 - 111999

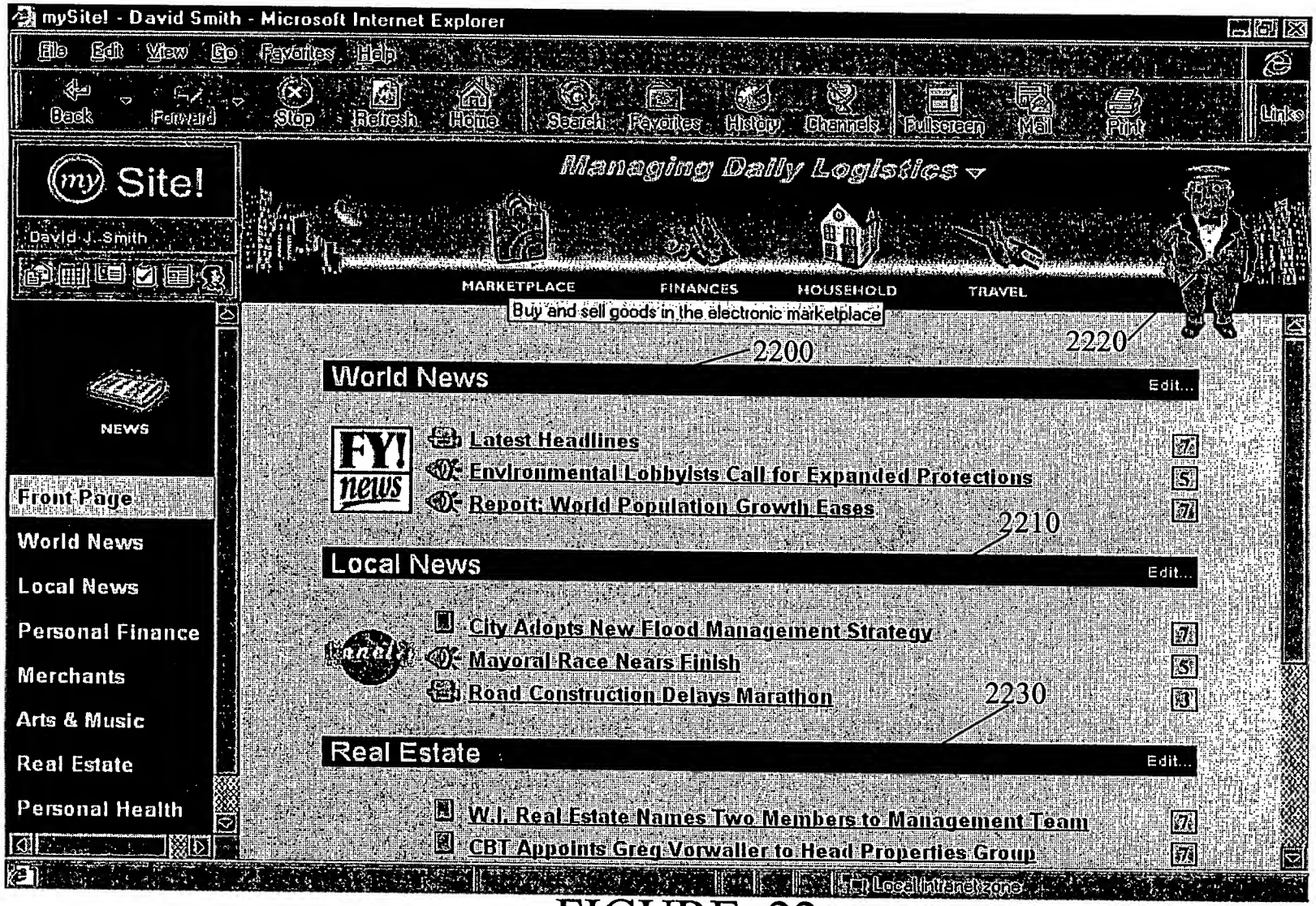

FIGURE 22

09195952 - 111999

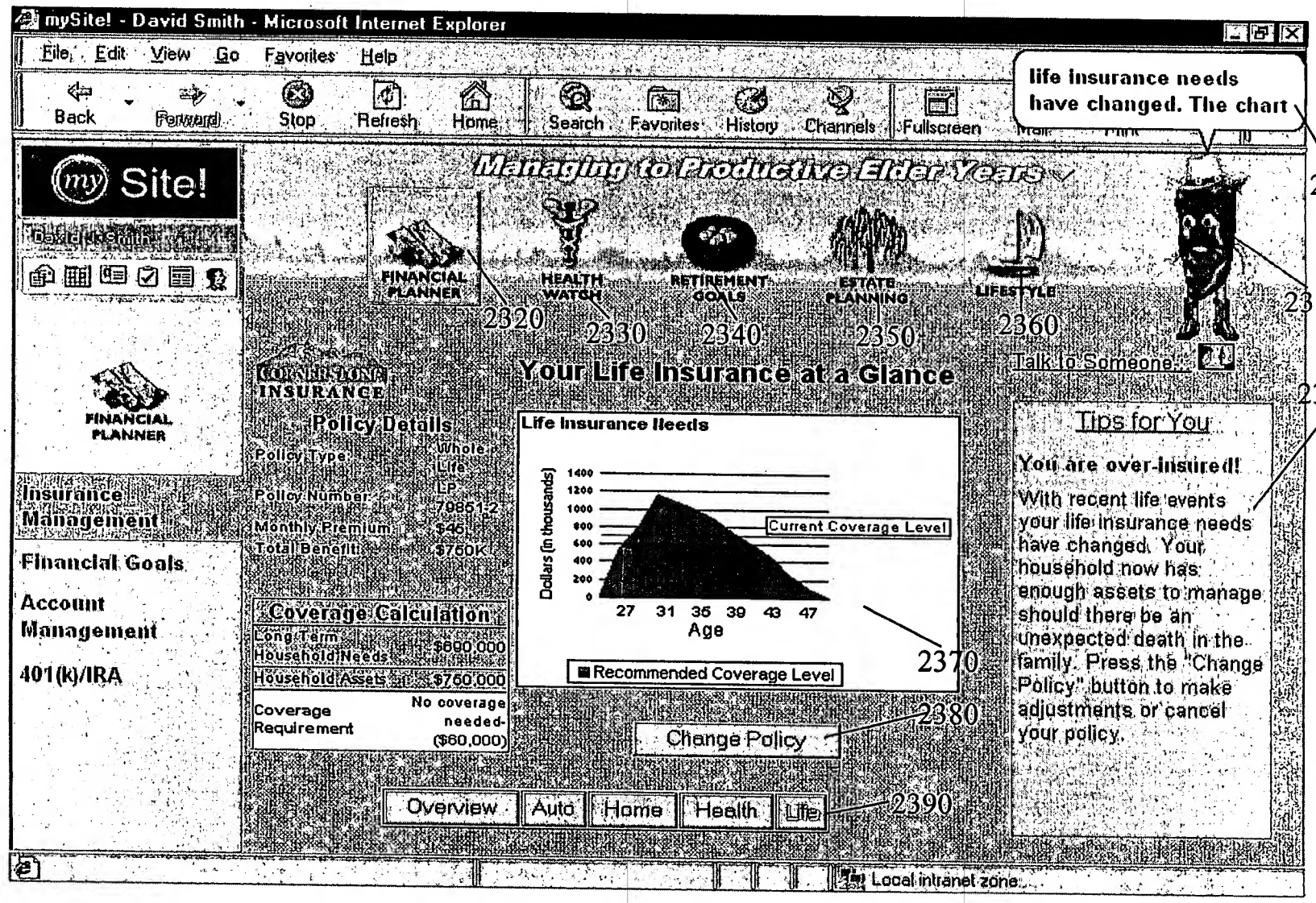
mySite! - David Smith - Microsoft Internet Explorer
File Edit View Go Favorites Help
Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen
life insurance needs have changed. The chart
2300
my Site!
Managing to Productive Elder Years
FINANCIAL PLANNER
HEALTH WATCH
RETIREMENT GOALS
ESTATE PLANNING
LIFESTYLE
2310
2320
2330
2340
2350
2360
Talk to Someone...
FINANCIAL PLANNER
Your Life Insurance at a Glance
INSURANCE
Policy Details
Policy Type Whole Life
Policy Number LP 798512
Monthly Premium $45
Total Benefit $750K
Life Insurance Needs
Dollars (in thousands)
1400
1200
1000
800
600
400
200
0
Current Coverage Level
27 31 35 39 43 47
Age
Recommended Coverage Level
2370
2395
Tips for You
You are over-insured!
With recent life events your life insurance needs have changed. Your household now has enough assets to manage should there be an unexpected death in the family. Press the "Change Policy" button to make adjustments or cancel your policy.
Insurance Management
Financial Goals
Account Management
401(k)/IRA
Coverage Calculation
Long Term Household Needs $600,000
Household Assets $760,000
Coverage Requirement No coverage needed- ($60,000)
Change Policy
2380
Overview Auto Home Health Life
2390
Local intranet zone

FIGURE 23

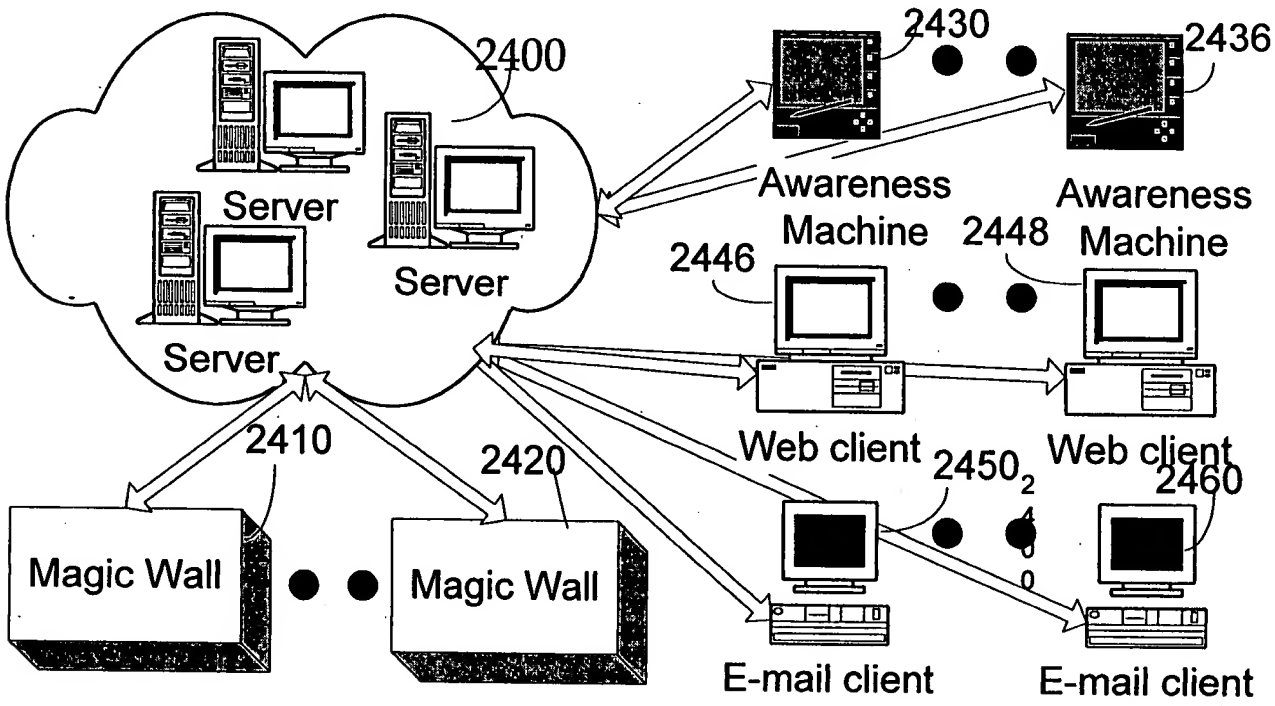
2400
Server
Server
Server
2430
2436
Awareness Machine
Awareness Machine
2446
2448
Web client
Web client
2410
2420
Magic Wall
Magic Wall
2450
2460
E-mail client
E-mail client

Figure 24

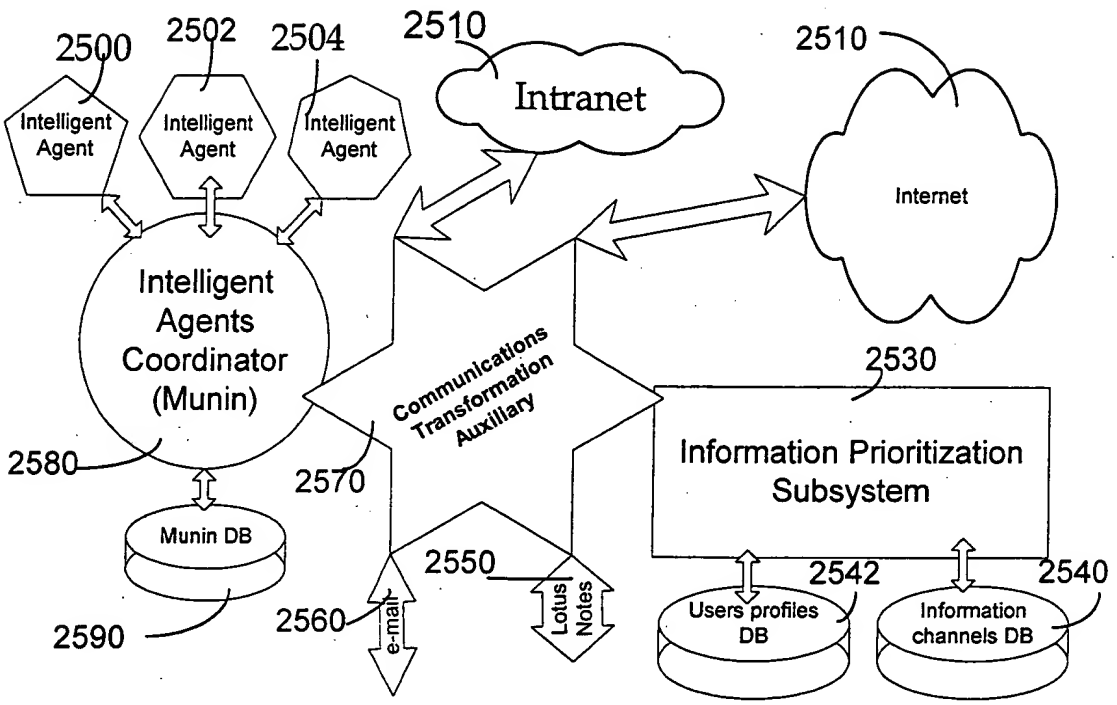
2500
2502
2504
2510
2510
Intelligent Agent
Intelligent Agent
Intelligent Agent
Intranet
Internet
Intelligent Agents Coordinator (Munin)
Communications Transformation Auxillary
2530
Information Prioritization Subsystem
2580
2570
Munin DB
2550
2542
2540
2560
e-mail
Lotus Notes
Users profiles DB
Information channels DB
2590

Figure 25

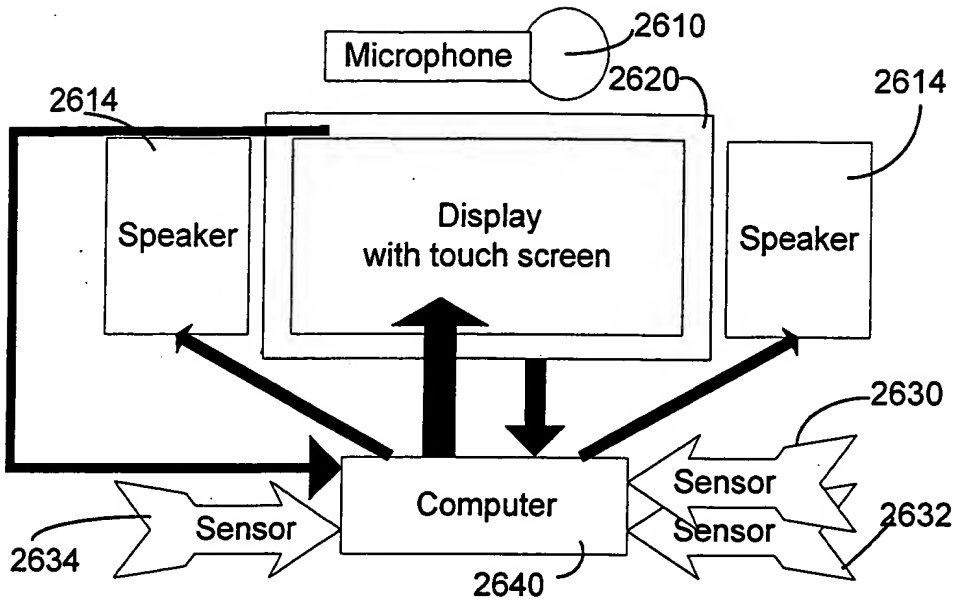
Microphone
2610
2620
2614
2614
Speaker
Display
with touch screen
Speaker
2630
Sensor
Computer
Sensor
2632
Sensor
2634
2640

Figure 26